

PCT

RED

RAW SEQUENCE LISTING

FATERI AFFILICATION: PCT/US02/36692

DATE: 12/02/2002 TIME: 15:17:58

Input Not : A:\SEQUENCE.txt

Output Tet: N:\CRF4\12022002\PU36692.raw

```
3 <110: AFFLICANT: Brenda F. Baker
             Mark F. Roach
      4
             -Kenneth Ecbie
             Isis Pharmaceuticals, Inc.
      🔅 :120> TITLE OF INVENTION: ANTISENSE MODULATION OF VITAMIN D NUCLEAR RECEPTOR
EXPRESSION
     16 <130% FILE REFERENCE: RTSF-0435
C--> 12 <140> CURRENT APPLICATION NUMBER: PCT/US02/36692
C--> 12 <141> CURRENT FILING DATE: 2002-11-13
     12 <150> PRIOR APPLICATION NUMBER: 10/000,213
     15 <151> PRIOR FILING DATE: 2001-11-14
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     21 <2150 ORGANISM: Artificial Sequence
     23 <220> FEATURE:
     25 <2230 OTHER INFORMATION: Antisense Oligonucleotide
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     25 loogtostig ofcorpaggg
     31 K01(> SEQ ID NO: 2
     30 -211> LENGTH: 20
     33 K212> TYPE: DNA
     34 <215> OFGANISM: Artificial Sequence
     36 <220> FEATURE:
     38 (223) OTHER INFORMATION: Antisense Oligonucleotide
     40 <400: SEQUENCE: 2
                                                                                 24
     41 atgdattotg doccdaagga
     44 <210> SEQ ID NO: 3
     45 <211> LENGTH: 4604
     46 K2120 TYPE: DNA
     47 K2130 OEGANISM: Homo sapiens
     50 K22CX FEATURE:
     51 <221> NAME/KEY: CDS
     52 <222> LOCATION: (116)...(1399)
     54 <400> SEQUENCE: 3
     55 gažariagoti, atopišonogo ogaznadach abisagontti aggistigasa tgtotigtisa
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RAW SEQUENCE LISTING FATE: 12/0/0/0/2
FATENT AFFILICATION: PCT/US02/36692 TIME: 18:10:10:10

Input Set : A:\SEQUENCE.txt

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69 Phe His The Ash And Met Thr Cys Glu Gly Cys Lys Gly Phe Phe Ari	
70 35 40 45 45 A	. 1.1
-72 oga aggrafig dag ogg sag gra ota tid aggrego ogg tid aggrego.	* 1.5
75 Arg Ser Met Lys Arg Lys Ala Lei Phe Thr Cys Pro Phe Ash Gly Asg	
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-77 Cys Mrg 110 101 Lys Msp Msb Mrg Mrg His Cys Gill Mia Cys Mrg 100. -78 -75 -86	
- 70 - 8) awa coc for utilisan and opposite at awa gad toc att one aca gat	406
81 Lys Arg Cys Val Asp The Gly Met Met Lys Glu Phe The Leu Thr Asp	
82 85 90 95	
- 84 gaq qaa qtq cag agg aag ogg gag atg atc otg aag ogg aag gag gag	454
85 Glu Glu Val Gin Arg Lys Arg Glu Met Ile Leu Lys Arg Lys Glu Giu	
86 100 105 110	
88 gag god tig aag dad agt dig ogg ood aag dig tot gag gag dag dad	0.62
89 Glu Ala Leu Lys Asp Ser Leu Arg Pro Lys Leu Ser Glu Glu Gln Gin	
90 115 120 125	
9) ego ato att god ata eng etg gad god dad dan aag add tad gad dod	5.50
93 Arg Ile Ile Ala Ile Leu beu Asp Ala His His Lys Thr Tyr Asp Fro	
94 130 135 140 141	
9% add tad tod gad tod typ dag tid dgg dot dda git dgi gig aat gaf	598
9) Thr Tyr Ser Asp Fhe Cys Gln Phe Arg Pro Fro Val Arg Val Ash Asp	
9° 150 155 160	
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1 1 Gly Gly Gly Ser His Fro Ser Arg Fro Asn Ser Arg His Thr Fro Se 1 2 165 170 175 1 14 ttd tot ggg gad for the too too tgd foa gat dad tgt atd acc to	. 694
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1 1 Gly Gly Gly Ser His Fro Ser Arg Fro Asn Ser Arg His Thr Fro Se 172 165 170 175 1/4 ttd tot ggg qad fod tod tod tod tod tod gat dad tot add tod 1/5 Phe Ser Gly Asp Ser Ser Ser Ser Cys Ser Asp His Cys Ile Thr Ser 106 180 185 190 1/8 toa gad atg atg gad tog tod agd ttd tod aat dig gat dig agd 1/9 Ser Asp Met Met Asp Ser Ser Ser Fhe Ser Asn Lou Asp Leu Ser Glader	. 694 : 742
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1 Gly Gly Gly Ser His Fro Ser Arg Fro Asn Ser Arg His Thr Fro Sec 1/2	. 694 : 742 : 790 : 838
1 Gly Gly Gly Ser His Fro Ser Arg Fro Asn Ser Arg His Thr Fro Sec 1/2	. 694 : 742 : 790 : 838
1 Gly Gly Gly Ser His Fro Ser Arg Fro Asn Ser Arg His Thr Fro Sec 1/2	742 742 790 788
1 Gly Gly Gly Ser His Fro Ser Arg Fro Asn Ser Arg His Thr Fro Sec 1/2	742 742 790 788
1 Gly Gly Gly Ser His Fro Ser Arg Fro Asn Ser Arg His Thr Fro Sec 1/2	. 694 . 742 . 790 . 838
1 Gly Gly Gly Ser His Fro Ser Arg Fro Asn Ser Arg His Thr Fro Sec 1/2	. 694 : 742 : 790 : 886 : 886
1 Gly Gly Gly Ser His Fro Ser Arg Fro Asn Ser Arg His Thr Fro Sec 1/2	. 694 : 742 : 790 : 886 : 886
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1 Gly Gly Gly Ser His Fro Ser Arg Fro Asn Ser Arg His Thr Fro Sec 1/2	. 694 . 742 . 790 . 838 . 886 . 484

RAW SEQUENCE LISTING FATER: 12 / 12 / 20 / 20 12 FATER: 12 / 12 / 20 / 20 12 FATER: 15:17:58

Input Note: A:\SEQUENCE.txt

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16 160	Val I	J⊕1	G1n 420	Val	Phe	Gly	Asn	Glu 425	lle	Ser							1479
16 166 165	Val :	Jeu ggta	015 420 199 -	Val Erage	Phe Heat	Gly o ca	Asn :gggc	G15 425 scace	ile Ligo	Ser Snagg	gada	gggg	get ge	geg	getai	goggtig sticago socago	
16 166 165 164	Val E cotgo agodo	Jeri ggt g st sc	615 420 1gg - to-	ant de ant de	Pho stocc stocc	Gly o ca yg gg	Asn aggge attea	Glu 425 cacc gecc	ile rigo roto	Ser Snage Sctot	gede Igde	ggge adot	get gy . ddal	gog sta	gotia) tidoa(ntinago cecago	1479
160 160 165 160 170	Val E cotgo agood coatt	Jeri ggtg stoc Joto	G14 420 1gg - to -	Mail antigr ancre tectig	Phe Heat state state	Gly to ca gg gg aa co	Asn aggge gutca ntaac	Gli 425 caec geec ceet	ile pigo picto picto	Ser Chago Cotot Cotoo	oddd oddd dece	gggd adot otst	get gy . daak : taak	gog sta sog (geta tideac gtidec	nthoago socago stigag	1479 1539
160 160 165 160 170	Val I	ggtg stoc Joto page	Glu 420 ggg - tho s tho s ca s	Vai antige anced tectig	Pho rt cat gtoto gtosa gagtt	Gly on ca gg gg aa co og ct	Asn aggge quica rtaac .gttt	Glü 425 cacç gcac gcac gcac cacat	ile pitgo picto pitto gao	Ser chage cotot cotgo caaaq	gece igee iggg gaaa	ggge acet etit	gotigo Loco Loco Loco Bagtig	god sta sog (gota: toca: gtoc: ggca:	ntinago cecago	1479 1539 1599
160 160 163 160 170 171 171	Val : octgo ageco ccatt aceto agagg	Jeri ggtg stac Jata gatg	Gin 420 Jgg - tto - tto - tto - tto -	Vali antige anche tigage aggeac	Phe et dat guat guagut gagat	Gly co ca gg gg aa co cg ct ct go	Asn aggge gutea rtaac agutt cocac	Glu 425 cacc gccc gccc gctt gagat	ile pitgo picto tto gao	Ser chago cotot cotoo caaac ctoos	ancd daga daga daga daga	gggd abot otet odea otgd	getige Lecce Lecce aagte setaa	gog sta sog - ggg -	geta tidea gtide gget gget	ntcago cocago cttgag gagggo gotgac	1479 1539 1599 1659
167 166 167 170 171 171	Val L detge ageod coatt acete agagg tgate	getg getg Jetc getg getg	GIU 420 stori ccar ggar gagar	Vali antige ticette tigage ggeac ggaac	Phe store gross gaget gages gagas	Gly co ca gg gg aa co cg ct ct go ca gg	Ash agggo quica rtaac agtit booac gagaa	Glu 425 cacc gode coot gttt gagat	ile progo proto pro proto pro proto pro pro proto pro proto pro pro pro proto pro pro pro pro pro pro pro pro pro pr	Ser cotot cotoc caaaa ctoca coatt	gece oggg gaaa gece cot	gggd acet etet ecea etgd	getige Lecce Lecce agge potaa ggana	god Sta Sog (ggg (agt (getae ticcae gticce ggete ggete galcae	nthago socago stigag gagggo	1479 1539 1599 1659 1719
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160 160 160 170 171 17, 173 174 170	Val I	ggtg dtoc Joto gago gotg gotg acco	GIV 420 ggy - std s scali scali gga (scali stal)	Vall antige trootige trootige trootige ggeac ggaac ggaac gaataa	The off cat grant of a	Gly co ca gg	Asn agggo quio quito quito gagaa qagaa qagaa qagaa	Glu 425 coace good good gttt pagat coate gattoca	Ile tgo cto cto gao ato ato gao	Ser onage octot calaac calaac coatt goota	geoc rgoc rggg gaaa arog Joot agtg	gggk adot otet odos otgk oagg gggt oott	getige Lock Lock Lock aagte Lock Lock Loagt	gog sta sog - ggg - gga - sot sgc	geta tidea gteo ggea ggeta gada uteet	nthago cecago citgag gagggo gotgac cotgoa goott	1479 1539 1599 1659 1719 1779 1839 1899
160 160 160 170 171 171 173 174 170	Val : cotgo ageor coatt acete agagg tgate cotec actes actes acetes	Jeri ggtg otor Jetc Jetg Jetg gttg Jecg Jetg	GIV 420 ggg - tto : tto : tto : gga (gag) (tta :	Valland grander george	Phe nt cot gt obe gaget gaget cagac agec at egg at at	Gly concepts graph graph concepts graph graph graph concepts graph concepts	Ash agggo qttca rtaac gttt popag gagaa gatto racac	Gludace 425 second general 425 s	Tile grade cate gade atte gade cate	Ser onago octot octoca ocatt ocatt goota agoto agoto	good ggoo ggaaa loot loot agtg	gggk acot otet ocos otgc oggt octt tgag	getige . deck . tede . tede . detaa ggana . deck . deagt ggetige	ged Sta Seg - ggg - agt - agt Set Sgc	geta tocae gtee ggete gacae eteet ecaee	nthago cocago cttgag gagggo gotgao cotgoa lgoott caacat	1479 1539 1599 1659 1719 1779 1839 1899
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306 K220: FEATURE:	
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320 <220% FEATURE:	
- 320 K220 FRATORE: II	
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